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DECLASS REVIEW by NIMA/DOD

TCS 8037/65
M/EB 132/65
26 April 1965
Copy 1

MEMORANDUM FOR: Chief, Forces Division, ORR

25X1A ATTENTION: [REDACTED], Defensive Missiles Branch
THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS
FROM: Chief, Photographic Intelligence Division, CIA
SUBJECT: Electronic Site, Kapustin Yar/Vladimirovka Missile Test Center, USSR
REFERENCES: (a) Requirements C-RR4-81,842 and C-RR5-81,842 Supplement 1
(b) CIA/PID Project 30826-4
(c) NPIC Reports R-802/64, R-5139/64 and R-439/64

25X1D 1. This memorandum is in response to your requirement dated 28 September 1964 and a supplement dated 9 February 1965 which requests a detailed analysis of the "Leningrad-type" electronic site at the Kapustin Yar/Vladimirovka Missile Test Center. This request was fulfilled utilizing [REDACTED]
25X1D [REDACTED] were used for reference purposes only. Mensur-
25X1D ation and identification of components were determined from [REDACTED]
25X1D [REDACTED] All measurements have been made by the NPIC
25X1D Technical Intelligence Division and are considered to be accurate [REDACTED]
25X1D [REDACTED] whichever is greater, for horizontal measurements. All heights
25X1D are considered to be accurate with ± 10 feet or ± 10 percent, whichever is greater.

2. The Kapustin Yar Electronic Site (Attachment 1) is located at 48-41-10N 45-43-30E, approximately one nautical mile (nm) north of the active Kapustin Yar Airfield. The site is double fenced, partially enclosed by a double firebreak, and is road served.

The following components at the site were analyzed in detail (item letters keyed to attachment 2):

- a. Eastern elevated platform (outrigger)
- b. Western elevated platform (outrigger)
- c. Four radar mounds, three supporting BACK NET-type radars

S-16977

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SUBJECT: Electronic Site, Kapustin Yar/Vladimirovka Missile
Test Center, USSR

TCS 8037/65
M/EB 132/65

- d. Four height finder radars
- e. Two height finder radars
- f. Unidentified tower or height finder radar
- g. Tall King radar
- h. Hardstand with various components
- i. Two unoccupied mounded hardstands
- j. Three unoccupied earth mounds
- k. On-site support area with eight buildings
- l. Possible heliport
- m. Probable transformer yard

25X1D 3. Item A: The flat, elevated platform is very similar to the platforms at the Leningrad SAM/AMM Launch Complexes. The top of the platform is 75 feet above ground and [REDACTED] in diameter. A cylindrically-shaped structure, 30 feet in diameter, extends to a height of 35 feet above the center of the platform, giving a total overall height of 110 feet for the platform and the cylinder. The top of the cylinder appears to be flat. A possible low parapet is located on the outer rim of the platform and radial striations are observed on the surface of the platform, however, these striations do not construct a uniform pattern. The platform is partially snow covered. This elevated platform (Item A) is connected by conduit to Item B (Attachment 2), the elevated platform 4,200 feet to the west. Located immediately north of Item A is a self-supporting lattice-type tower approximately [REDACTED]

25X1D Item B: This facility consists of a building [REDACTED]
25X1D and a cylindrically-shaped structure, of undetermined dimensions, atop the building and supporting a platform [REDACTED] in diameter. This platform is much thicker
25X1D than the platform at Item A, as determined by shadow analysis. Located atop the
25X1D platform is an unidentified object with dimensions of 25 by [REDACTED] (height undetermined). The entire height of this structure is [REDACTED] including the building height. This structure does not resemble the one in Item A above, nor

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S-16977

TOP SECRET

SUBJECT: Electronic Site, Kapustin Yar/Vladimirovka Missile Test Center, USSR

TCS 8037/65
M/EB 132/65

does it resemble the outriggers at the Leningrad SAM/AMM Launch Complexes. However, it does resemble in some respects, the Probable Radar Position, Site B (NPIC R-439/64, Figure 5) at the Southwest SAM/AMM Launch Complex, Leningrad. The position at Leningrad has a building under construction, approximately 75 by 75 feet, with a cylindrically shaped structure under construction in the center of the building. During comparable construction stages the two items would probably be very similar.

25X1D Item C: Four radar mounds, three of them occupied by BACK NET-type radars, are located at this facility. These BACK NET-type radars have sails approximately [REDACTED]. The height of the radar, plus the earth mound, is 50 feet. Eight probable vans are parked immediately south of the two center mounds. Other activity is discernible in the vicinity of the radar mounds, but cannot be identified because of poor definition of features.

Item D: Four height finder radars are located just north of the four aforementioned radar mounds. They could not be identified by name nor could their heights be determined.

25X1D Item E: The position supports two height-finder radars approximately [REDACTED]. They also could not be identified by name.

25X1D Item F: The hardstand is occupied by an unidentified tower or height finder radar approximately [REDACTED]

25X1D Item G: The Tall King radar is mounted on a building [REDACTED] feet high. Because of poor shadow definition, measurements could not be obtained. 25X1D However, Tall King radars in other parts of the USSR have been measured approximately [REDACTED] for sail length and height respectively. Immediately 25X1D north of the Tall King is a small building [REDACTED]

25X1D Item H: The hardstand is occupied by two small buildings, [REDACTED] 25X1D [REDACTED] and a self-supporting, flat-topped lattice-type tower approximately 80 feet high. This tower does not appear to be supporting any electronic equipment at this time. Immediately west of and adjacent to the lattice-type tower, is an unidentified tower or mast.

Item I: The position consists of two small, unoccupied elevated (by earth mounding) hardstands connected to the road between the two outriggers (Items A and B).

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S-12977

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SUBJECT: Electronic Site, Kapustin Yar/Vladimirovka Missile Test
Center, USSR

TCS 8037/65
M/EB 132/65

Item J: Three small earth mounds are located directly south of outrigger A, and are connected by road to the outrigger access road. The mounds are not occupied.

25X1D Item K: The on-site control/support area contains a total of eight buildings, apparently utilized for control, maintenance and storage. The large control building has two roof levels, however, due to a lack of good shadow definition of the upper level, only the lower height could be determined (See Attachment 3 for available mensuration). [REDACTED] 40 foot gable roofed building is a probable barracks-type building. A minimum of twelve probable vehicles and vans are dispersed throughout the support area. More detailed information could not be obtained in the control/support area due to photographic quality limitations, specifically, deep shadows casted over portions of the area.

Item L: The cleared area is approximately 360 by 180 feet and possibly serves as a heliport. Helicopters are located at the Kapustin Yar Airfield, one nm south of this site.

Item M: A probable transformer yard is located immediately west of the electronic site, and contains one building. A power trace is entering and leaving the probable transformer yard. The internal power network cannot be accurately traced.

25X1D 4. The status of the two elevated outriggers was previously reported as possibly operational [REDACTED]. However, in the opinion of the analyst, the quality of the aforementioned photography does not permit this determination.

25X1D No significant changes are noted at the two outriggers since [REDACTED] even though subsequent, better quality photography has allowed much more detailed description of the outriggers. The absence of significant improvements or changes to the outriggers suggests that they are either operational or at least, outwardly complete as of [REDACTED]

25X1D

25X1A

5. The photo analyst on this project is [REDACTED] who may be contacted on extension 2078 should you have any further questions concerning this project.

6. This project is not considered to be complete pending publication of this material in a hard-bound report.

25X1A [REDACTED]

Enclosures: (CIA/PID/MEB-P-192/65 thru P-194/65)

- 1 - One 10x photo enlargement
- 2 - One descriptive line drawing
- 3 - One mensuration sheet

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5-16977

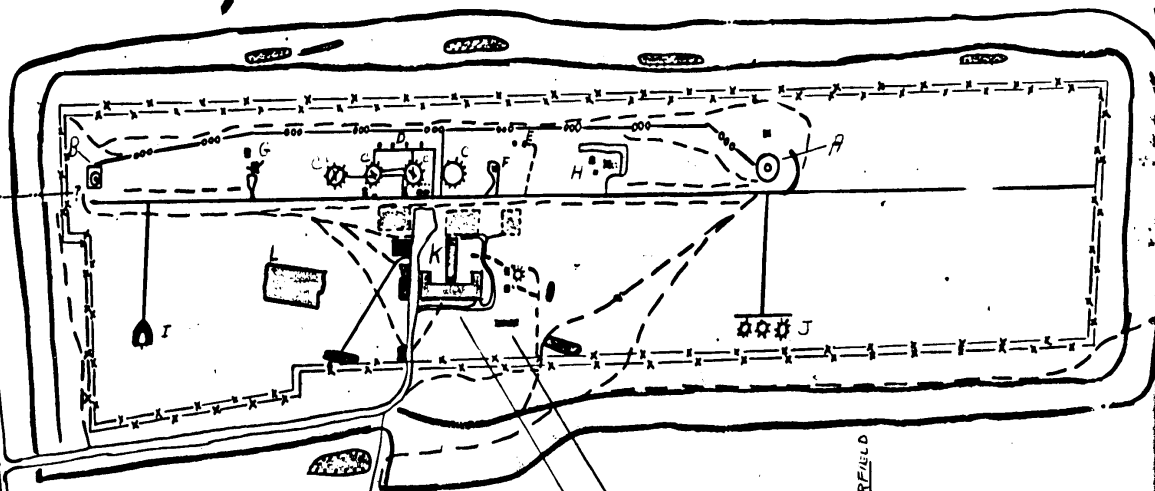
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LEGEND	
	- CONTROL/SUPPORT BUILDING
	- VEHICLE PARKING AREAS
	- BURROW PITS
	- EARTH MOUNDS
	- FENCE
	- ELECTRIC CONDUIT LINE
	- POWER TETHER
	- PAVED PRIMARY ROAD
	- ALL WEATHER ROAD
	- TRAIL
	- POSSIBLE AIRPORT

PROBABLE
TRANSFORMER
YARD

M



BARRACKS-TYPE BLDG.

CONTROL/SUPPORT AREA

KAPUSTIN YAR AIRFIELD

KAPUSTIN YAR ELECTRONIC SITE
(48-41-10N 45-43-30E)

CIA/PID/MEB-P-193/65
Attachment 2 to:
TCS 8037/65

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5-16977

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Next 2 Page(s) In Document Exempt

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